

Title (en)
AQUEOUS INKJET INK

Title (de)
WÄSSRIGE TINTENSTRAHLTINTE

Title (fr)
ENCRE AQUEUSE POUR JET D'ENCRE

Publication
EP 2345704 B1 20160914 (EN)

Application
EP 09819241 A 20091008

Priority
• JP 2009067540 W 20091008
• JP 2008261576 A 20081008
• JP 2008261577 A 20081008

Abstract (en)
[origin: EP2345704A1] Pigment dispersion stability of water-based inkjet inks in which water content is decreased by adding a low-polarity water-soluble solvent is to be improved in a simple way in order to provide an inkjet ink with excellent on-machine stability. A water-based inkjet ink is provided, which comprises at least water, a low-polarity water-soluble organic solvent, a pigment and optionally a basic substance, wherein the water constitutes 60 percent by mass or less of the total quantity of the ink while the water-soluble organic solvent constitutes 15 percent by mass or more of the total quantity of the ink, the pigment comprising a self-dispersible pigment that has anionic functional groups on its surface and contains, as counter ions, quaternary ammonium ions represented by the formula (1) described below. The basic substance is contained in an amount sufficient to allow the ink to have a pH value of 9 to 11: wherein R 1 , R 2 , R 3 and R 4 independently represent a substituted or unsubstituted alkyl group.

IPC 8 full level
C09D 11/00 (2014.01); **B41J 2/01** (2006.01); **B41M 5/00** (2006.01)

CPC (source: EP US)
C09D 11/322 (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2345704 A1 20110720; EP 2345704 A4 20131127; EP 2345704 B1 20160914; CN 102159653 A 20110817; JP 5529030 B2 20140625; JP WO2010041707 A1 20120308; US 2011192318 A1 20110811; WO 2010041707 A1 20100415

DOCDB simple family (application)
EP 09819241 A 20091008; CN 200980136361 A 20091008; JP 2009067540 W 20091008; JP 2010532951 A 20091008; US 200913123283 A 20091008